

**Abstract of the Disclosure (Revised)**

A method for calibrating milk meters in a milking system includes a milking station having at least one milk meter that measures a value of a milking performance of a milking animal. The method includes the steps: determining a reference value which reflects the amount of milk received from a number of milking animals during a selected time period in a reference unit, retrieving all measured values during the selected time period for each milk meter that by itself contribute to the amount of milk received by the reference unit, comparing the reference value with the sum of all retrieved measured values and calculating a correction function for one of the milk meters, and using the calculated correction function to adjust the measured value from the milk meter.